

I. AMENDMENT

Prior to further action on the merits, please amend the application as follows.

IN THE SPECIFICATION

Please delete the Sequence Listing presently of record in the application (pages 1 through 52) and substitute therefor new pages 1 through 55, enclosed herewith, which comprise a substitute Sequence Listing.

II. REMARKS

The applicants wish to thank Examiner Liu for the courteous assistance he exhibited in a telephonic interview with Applicants' attorney on July 23, 2002, in which the Examiner indicated that the substitute sequence listing enclosed herewith will be directed to the supervisor of the Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) for review.

AMENDMENTS TO THE SPECIFICATION

By the foregoing amendment, the applicants have complied with the Sequence Listing rules by replacing the Sequence Listing of record with a substitute Sequence Listing. The changes embodied in the substitute Sequence Listing pertain only to compliance with formatting rules. SEQ ID NO: 33 and 34 have been amended to include fields <220> through <223>, in which the location of "n" and the residues it represents has been identified. Particularly, "n" at positions 3 and 6 of SEQ ID NO: 33, and at positions 9, 15, and 18, of SEQ ID NO: 34, have been identified as --n= a, t, g or c--. All other errors alleged in the Raw Sequence Error Report are not found in applicants sequence listing, therefore these errors have not been addressed. For example, Examiner alleged that sequences 4-11 and 15-36 are missing the <220> feature, associated

headings, and explanation of source of genetic material. However, these features are clearly identified in the sequences.

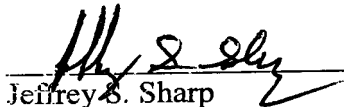
III. CONCLUSION

In view of the foregoing, the applicants respectfully request that substantive examination be undertaken.

Respectfully submitted,

MARSHALL, GERSTEIN & BORUN
6300 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606-6357
(312) 474-6300

By: _____


Jeffrey S. Sharp
Registration No. 31,879
Attorney for Applicants

August 26, 2002